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(54) Title: USE OF CELL-FREE DNA FRAGMENTOMES IN THE DIAGNOSTIC EVALUATION OF PATIENTS WITH SIGNS
AND SYMPTOMS SUGGESTIVE OF CANCER

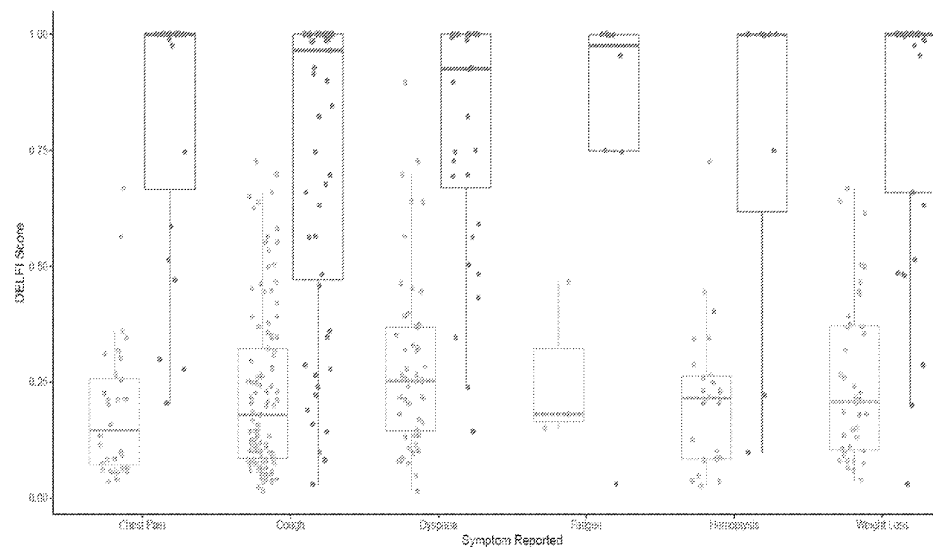


FIGURE 1

(57) Abstract: The present disclosure provides methods of uses thereof for improved diagnostic applications using genome-wide patterns of fragmented cell-free DNA (cfDNA) from plasma, derived by low-coverage whole-genome sequencing, and analyzed in conjunction with certain clinical and demographic features of individual patients. In particular, the present invention provides new and effective methods for confirming the presence or absence of cancer in an individual patient already suspected of having cancer.

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